

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-27 (canceled)

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Claim 28 (currently amended): An isolated peptide or polypeptide comprising an amino acid sequence ~~having of at least two contiguous amino acid residues derived from at least residues 56-139-62 of SEQ ID NO:1-19~~ and of which up to ~~184-183~~ contiguous amino acid residues can be derived from residues 56-239 of SEQ ID NO:119, ~~a functional variant of each or a functional equivalent of each, each of which is~~ wherein the isolated peptide or polypeptide is capable of specifically binding to at least a portion of an Inhibitor of Apoptosis protein.

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Claim 29 (original): The isolated peptide or polypeptide of claim 28, wherein said portion is at least one BIR domain.

Claim 30 (original): The isolated peptide or polypeptide of claim 29, wherein said BIR domain is BIR1.

Claim 31 (original): The isolated peptide or polypeptide of claim 29, wherein said BIR domain is BIR2.

Claim 32 (original): The isolated peptide or polypeptide of claim 29, wherein said BIR domain is BIR3.

Claim 33 (currently amended): The isolated peptide or polypeptide of claim 28, wherein said specific binding is to a full-length IAP.

Claims 34-35 (canceled)

Claim 36 (currently amended): An isolated Smac peptide or polypeptide ~~consisting essentially of comprising~~ an amino acid sequence ~~having of~~ at least two seven ^{not active} contiguous amino acid residues ~~derived from~~ at least residues 56-139 of SEQ ID NO:119 and of which up to ~~184-183~~ contiguous amino acid residues can be ~~derived from~~ residues 56-239 of SEQ ID NO:119, ~~a functional variant of each or a functional equivalent of each, each of which wherein the isolated Smac peptide or polypeptide~~ is capable of specifically binding to at least a portion of an Inhibitor of Apoptosis protein. ^{Smac 15-35 (47#6) v.1.0 official action}

Claim 37 (original): The isolated peptide or polypeptide of claim 36, wherein said portion is at least one BIR domain.

Claim 38 (original): The isolated peptide or polypeptide of claim 37, wherein said BIR domain is BIR1.

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Claim 39 (original): The isolated peptide or polypeptide of claim 37, wherein said BIR domain is BIR2.

Claim 40 (original): The isolated peptide or polypeptide of claim 37, wherein said BIR domain is BIR3.

Claim 41 (currently amended): The isolated peptide or polypeptide of claim 36, wherein said specific binding is to a full-length IAP.

Claim 42 (original): The isolated peptide or polypeptide of claim 36, wherein said peptide or polypeptide has an amino acid sequence of at least Ala-Val.

Claim 43 (original): The isolated peptide or polypeptide of claim 36, wherein said peptide or polypeptide has an amino acid sequence of at least the sequence provided in SEQ ID NO:13.

Claim 44 (currently amended): An isolated Smac peptide or polypeptide consisting of an amino acid sequence ~~having of~~ at least two seven contiguous amino acid residues ~~derived from at least residues 56-139 of SEQ ID NO:1-19 and of which up to 184-183~~ contiguous amino acid residues can be derived from residues 56-239 of SEQ ID NO:1-19, a ~~functional variant of each or a functional equivalent of each, each of which wherein the isolated~~ Smac peptide or polypeptide is capable of specifically binding to at least a portion of an Inhibitor of Apoptosis protein.

Claim 45 (original): The isolated peptide or polypeptide of claim 44, wherein said portion is at least one BIR domain.

Claim 46 (original): The isolated peptide or polypeptide of claim 45, wherein said BIR domain is BIR1.

Claim 47 (original): The isolated peptide or polypeptide of claim 45, wherein said BIR domain is BIR2.

Claim 48 (original): The isolated peptide or polypeptide of claim 45, wherein said BIR domain is BIR3.

Claim 49 (currently amended): The isolated peptide or polypeptide of claim 44, wherein said specific binding is to a full-length IAP.

Claim 50 (original): The isolated peptide or polypeptide of claim 44, wherein said peptide or polypeptide has an amino acid sequence of at least Ala-Val.

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Claim 51 (original): The isolated peptide or polypeptide of claim 44, wherein said peptide or polypeptide has an amino acid sequence of at least the sequence provided in SEQ ID NO:13.

Claims 52-96 (canceled)